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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/814,099	03/22/2001	Masanori Ikari	010270	2044
23850	7590 05/13/2004		EXAMINER	
ARMSTRONG, KRATZ, QUINTOS, HANSON & BROOKS, LLP			NGUYEN, THU V	
1725 K STRI SUITE 1000	1725 K STREET, NW SUITE 1000		ART UNIT	PAPER NUMBER
WASHINGTON, DC 20006			3661	
			DATE MAILED: 05/13/200	4

Please find below and/or attached an Office communication concerning this application or proceeding.

****	Application No.	Applicant(s)				
	09/814,099	IKARI, MASANORI				
Office Action Summary	Examiner	Art Unit				
• · · · · · · · · · · · · · · · · · · ·						
The MAILING DATE of this communicatio	Thu Nguyen	3661				
Period for Reply	ir appears on the cover sheet w	The dorrespondence address				
A SHORTENED STATUTORY PERIOD FOR R THE MAILING DATE OF THIS COMMUNICATI - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communicatic - If the period for reply specified above is less than thirty (30) days, - If NO period for reply is specified above, the maximum statutory of - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a on. a reply within the statutory minimum of thi period will apply and will expire SIX (6) MO statute, cause the application to become A	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
, <u> </u>	This action is non-final.					
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
closed in accordance with the practice un	der Ex parte Quayle, 1935 C.I	J. 11, 453 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-13 is/are pending in the application	Claim(s) <u>1-13</u> is/are pending in the application.					
4a) Of the above claim(s) 4-10 is/are without	4a) Of the above claim(s) <u>4-10</u> is/are withdrawn from consideration.					
5)⊠ Claim(s) <u>2,3 and 11-13</u> is/are allowed.	Claim(s) <u>2,3 and 11-13</u> is/are allowed.					
6)⊠ Claim(s) <u>1</u> is/are rejected.	Claim(s) 1 is/are rejected.					
7) Claim(s) is/are objected to.	Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction a	Claim(s) are subject to restriction and/or election requirement.					
Application Papers						
9) The specification is objected to by the Exa	miner					
10)⊠ The drawing(s) filed on 22 August 2002 is.		biected to by the Examiner.				
Applicant may not request that any objection t	•					
Replacement drawing sheet(s) including the c	V = 1 1					
11) The oath or declaration is objected to by the						
Priority under 35 U.S.C. § 119						
	raina anionity under 25 U.C.C.	S 110(a) (d) a= (5)				
12)⊠ Acknowledgment is made of a claim for fo a)⊠ All b)□ Some * c)□ None of:	reign priority under 35 0.5.C.	9 119(a)-(d) or (1).				
1.⊠ Certified copies of the priority docu	monte have been received	-				
2. Certified copies of the priority docu		Application No.				
3. Copies of the certified copies of the						
application from the International B		Trootrod III tillo National Stago				
* See the attached detailed Office action for	, , , , , , , , , , , , , , , , , , , ,	t received.				
Attachment(s)						
1) Notice of References Cited (PTO-892)		Summary (PTO-413)				
 2) Notice of Draftsperson's Patent Drawing Review (PTO-94 3) Information Disclosure Statement(s) (PTO-1449 or PTO/5 	,	v(s)/Mail Date Informal Patent Application (PTO-152)				
Paper No(s)/Mail Date	6) Other:					

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DETAILED ACTION

The amendment filed on January 16, 2004 has been entered. By this amendment, claims 1 and 11 have been amended, claims 4-10 have been withdrawn from consideration, claims 1-3, 11-13 are now examined in this application. All claims 1-13 are now pending in the application.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hanamoto et al (US 5,356,259).

As per claim 1, Hanamoto teaches a working unit control apparatus of an excavating and loading machine in which a controller outputting a boom control command value to the boom control valve on the basis of the boom lever operating amount and a bucket control command value on the basis of the bucket lever operating amount (col.13, lines 38-53; col.14, lines 19-66); Hanamoto further teaches a load judging portion (col.16, lines 39-40, lines 42-47), and starting excavation when boom lever is operated and the load judging portion judges that the vehicle is under excavation (col.9, lines 20-37, lines 23-25; col.16, lines 42-61). Moreover, since Hanamoto teaches a hydraulic working unit (fig.2), Hanmoto obviously teaches the well known boom cylinder, boom control valve, boom lever, boom lever operating amount detector, bucket

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cylinder, bucket control valve; bucket lever, bucket lever operating amount detector that are well known to be included in the hydraulic working machine as claimed. Hanamoto does not explicitly teach an excavating state detecting means. However, since Hanamoto teaches the capability to recognize the user operation on the pedal 10 (fig. 1) for automatic excavating mode (col.16, lines 39-42), and since including a means for detecting the level of operation on the pedal would have been known. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to include an excavating state detecting means for detecting user command of excavation based on the stepping amount of the pedal 10 of Hanamoto in order to facilitate detecting excavation state of the working unit based on the command input from the operator.

Allowable Subject Matter

- 3. Claims 2-3, 11-13 are allowed.
- 4. The following is an examiner's statement of reasons for allowance:

Prior art of record does not disclose a working unit control apparatus of an excavating and loading machine set forth claims 2-3, 11-13. Specifically, prior art of record does not teach the excavating machine that starts an automatic excavation control when the load judging portion judges that the vehicle is under excavation and the operating amount change judging portion judges that the boom lever operating amount changes from a predetermined operating amount to a zero amount. Moreover, prior arts of record does not teach a working machine having an excavating state detecting means that is constituted by a vehicle speed detector and engine rotational speed detector, and a load judging portion the judges that the vehicle is under

excavation when the vehicle speed is equal to or less than a value shown by a predetermined curve relating to the engine rotational speed. Further, prior art of record does not disclose an excavating machine having an excavating state detecting means that is constituted by an accelerator pedal operating amount detector that detects an accelerator pedal operating amount, and an engine rotational speed detector that detects an engine rotational speed; and a load judging portion that judges that the vehicle is under excavation when the accelerator pedal operating amount is equal to or more than a predetermined operating amount and the engine rotational speed is equal to or less than a predetermined rotational speed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Response to Arguments

5. Applicant's arguments with respect to claim 1 have been considered but are moot in view of the new ground of rejection.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

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(703) 305-7687, (for formal communications intended for entry)

Or:

(703) 305-7687 (for informal or draft communications, please label "PROPOSED" or "DRAFT")

Hand-delivered-responses-should-be-brought-to-Crystal-Park-V, 2451-Crystal Drive, Arlington. VA., Seventh Floor (Receptionist).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thu Nguyen whose telephone number is (703) 306-9130. The examiner can normally be reached on Monday-Thursday from 8:00 am to 6:00 pm ET.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Black, can be reached on (703) 305-8233. The fax phone number for this Group is (703) 305-7687.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-1111.

THU V. NGUYEN PRIMARY EXAMINER

May 10, 2004